



SEQUENCE LISTING

<110> Mitchell, Lloyd G.
Garcia-Blanco, Mariano A.
Puttaraju, Madaiah
Mansfield, Gary S.

<120> METHODS AND COMPOSITIONS FOR USE IN
SPLICEOSOME MEDIATED RNA TRANS-SPLICING

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<141> 2001-01-08

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 Escherichia coli lacZ gene

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 <223> Oligonucleotide primer complimentary to the
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HCG6 gene (accession #X00266)

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<223> Oligonucleotide primer complimentary to the
Escherichia coli lacZ gene

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<223> Oligonucleotide primer complimentary to the
Escherichia coli lacZ gene

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diphtheriae diphtheria toxin A sequence

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<210> 54
<211> 127
<212> RNA
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<221> misc_feature
<222> (57)...(70)
<223> Loop comprising a combination of 14 nucleotides
according to specification

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gcugcag 127

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<220>
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<221> misc_feature
<222> (57)...(70)
<223> Loop comprising a combination of 14 nucleotides
according to specification

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nnnnnnnnnn aucguuaacu aaauaacuac uaacuggggug aacuucugua uuauucucga 120
gcugcag 127

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<221> misc_feature
<222> (57)...(70)
<223> Loop comprising a combination of 14 nucleotides
according to specification

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nnnnnnnnnn aucguuaacu aaauaacuac uaacuggggug aaguucuguc cuugucucga 120
gcugcag 127

<210> 57
<211> 132
<212> DNA
<213> Artificial Sequence

<220>
<223> trans-spliced product containing Human chorionic
gonadotropin gene 6 sequences and Corynebacterium
diphtheriae diphtheria toxin A sequences

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lacZ gene

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lacZ gene

<400> 59
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<210> 60
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lacZ gene

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<211> 25
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<220>
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lacZ gene sequences and Human chorionic

gonadotropin gene 6 exon 2 sequences

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<223> trans-spliced product comprising cystic fibrosis
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      tag sequence

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actggactag tggatccgag ctccggtacca agcttaagtt taaaccgctg atcagcctcg 420
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ctggaagggt ccaactcccac                    500

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<210> 66
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<212> PRT
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<210> 67
<211> 15
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<220>
<223> Artificial sequence comprising sequences derived
from Escherichia coli lacZ gene

<400> 67
ggagttgatc ccgtc 15

<210> 68
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
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from Escherichia coli lacZ gene

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<210> 69
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<223> Spacer sequence of PTM

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<223> Branch point, pyrimidine tract and acceptor splice
site of PTM

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<220>
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gatccaccgg 70

<210> 73
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 <211> 23
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 acccatcatt attaggtcat tat 23

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 <220>
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 <210> 85
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 tatgatgaaa a 71

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 <211> 66
 <212> DNA
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 <220>
 <223> Oligonucleotide

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 acgccg 66

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 cagttggagg ag 192

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 gagcaggcaa gacgagcttg ctcac 25

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<400> 90
gagaacataa tcttcggcgt cagttacg

28

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30

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cagttggagg ag 192

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<220>
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ccaactagaa gaggacatct ccaagtttgc

30

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 <220>
 <223> 5' splice site

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 <210> 99
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 <220>
 <223> 3' splice site

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 ctgcagggcg gcttcgtcta ataatgg 27

 <210> 100
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<220>

<223> Sequence from trans-splicing domain

<400> 100

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47

<210> 101

<211> 1584

<212> DNA

<213> Artificial Sequence

<220>

<223> CFTR PTM

<400> 101

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accatcaagg agaacataat ctccggcgtc agttacgacg agtaccgcta tcgctcggtg 1560
attaaggcct gtcagttgga ggag 1584
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<210> 102

<211> 323

<212> DNA

<213> Artificial Sequence

<220>

<223> trans-splicing domain of CFTR PTM

<400> 102

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ttaactcatt atcaaatcac gct 323
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<210> 103
<211> 165
<212> DNA
<213> Artificial Sequence

<220>
<223> PTM binding domain

<400> 103
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<210> 104
<211> 225
<212> DNA
<213> Artificial Sequence

<220>
<223> trans-splicing domain of CFTR PTM

<400> 104
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<210> 105
<211> 3069
<212> DNA
<213> Artificial Sequence

<220>
<223> CFTR PTM sequence

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<210> 106

<211> 500

<212> DNA

<213> Artificial Sequence

<220>

<223> reverse complement of trans-spliced product comprising cystic fibrosis transmembrane regulator-derived sequences and His tag sequence

<400> 106

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